

**Post-doctoral researcher**

**Trends in Anthropogenic Pressures and Ecological Integrity in France by 2050**

**Information about the offer**

* **Recruitment Terms & Conditions**

**Location :** FRB, 195 rue saint Jacques, Paris, France

**Contract type :** Fixed term, full time, 24 months

**Salary :** starting from 2620€ gross salary per month

**Perks :** tickets restaurant, partial coverage of complementary medical insurance, partial coverage of work-home public transportation, working remotely up to 3 days/week

**Application deadline :** 13 December 2024

**Start date :** January 2025

* **Context and host structure**

***Foundation for Research on #Biodiversity***

The FRB was created in 2008. It gathers public research institutions, environmental NGOs, land and genetic resources managers and the private sector. It provides a forum where science meets society in order to address the current challenges related to biodiversity research. More info on <https://www.fondationbiodiversite.fr>

***ADEME Program Prospective 2027***

The FRB will be driving the “Biodiversity” sector in the long-term prospective exercise of the ADEME, the French Agency for Ecological Transition. This prospective involves the main sectors of the French economy – agriculture, industry, construction, infrastructures… - and asks them to project themselves into several energy- and climate-based scenarios. The anthropic pressures corresponding to these projections in each scenario are diverse and they have different implications on biodiversity. The main goal of the project is to describe both qualitatively and quantitatively the biodiversity paths along these scenarios in terms of the corresponding anthropic pressures. The inverse problem: to impose biodiversity targets and infer a set of admissible anthropic pressures for each sector is also central to the project.

**Main Missions**

The successful candidate will join the FRB team. They will work within the “Science et communautés de recherche” group. Reporting functionally to the head of the FRB, they will work closely with the leader of the “Prospective 2027” program. The first objective of the mission is to assess, analyze and emulate several models relating pressures to various biodiversity integrity indicators; then, to choose and apply the most relevant model(s) along the paths corresponding to the ADEME scenarios.

**Required profile**

The successful candidate will have a strong knowledge of modelling and simulation applied to ecology and ecosystems.

***Required skills***

* Good knowledge of ecosystem modelling
* In-depth, hands-on knowledge of one or several model relating pressures and biodiversity
* Data mining and visualisation skills
* Programming skills (R, Python)
* Knowledge of geographic information systems and spatial analysis
* Fluent in french,
* Good writing skills, good communication skills
* Autonomous, rigorous, self-organized
* Adaptable, open-minded and dynamic in a multi-person team with different background

***Extra skills***

* Knowledge of lettered programming (R Markdown / Quarto).
* Programming tool (R packages, R Shiny apps).

**Application process**

Applications should be sent before 13 December 2024 to [frederic.abergel@fondationbiodiversite.fr](file:///Users/fannylavastrou/Downloads/frederic.abergel@fondationbiodiversite.fr) and must include

* A resume
* A cover letter
* One or more recommendation letters